

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
7 December 2000 (07.12.2000)

PCT

(10) International Publication Number  
**WO 00/73449 A1**

(51) International Patent Classification<sup>7</sup>: C12N 15/12,  
5/10, C12P 21/02, C07K 14/47, 14/705, G01N 33/53,  
33/566, 33/567

Place, Rochelle Park, NJ 07662 (US). JONES, Kenneth,  
A. [US/US]; 136 East Main Street, Bergenfield, NJ 07621  
(US).

(21) International Application Number: PCT/US00/14654

(74) Agent: WHITE, John, P.; Cooper & Dunham LLP, 1185  
Avenue of the Americas, New York, NY 10036 (US).

(22) International Filing Date: 26 May 2000 (26.05.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
09/322,257 28 May 1999 (28.05.1999) US  
09/413,433 6 October 1999 (06.10.1999) US

(63) Related by continuation (CON) or continuation-in-part  
(CIP) to earlier applications:

US 09/413,433 (CIP)  
Filed on 6 October 1999 (06.10.1999)  
US 09/322,257 (CIP)  
Filed on 28 May 1999 (28.05.1999)

(71) Applicant (for all designated States except US): SYNAP-  
TIC PHARMACEUTICAL CORPORATION [US/US];  
215 College Road, Paramus, NJ 07652 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BOROWSKY,  
Beth, E. [US/US]; 218 Park Street, Montclair, NJ 07042  
(US). OGOZALEK, Kristine, L. [US/US]; 25 Durand

(81) Designated States (national): AE, AL, AM, AT, AU, AZ,  
BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK,  
DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,  
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,  
LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL,  
PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ,  
UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian  
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European  
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,  
IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG,  
CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

**Published:**

- With international search report.
- Before the expiration of the time limit for amending the  
claims and to be republished in the event of receipt of  
amendments.

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: DNA ENCODING SNORF33 RECEPTOR

(57) Abstract: This invention provides isolated nucleic acids encoding mammalian SNORF33 receptors, purified mammalian SNORF33 receptors, vectors comprising nucleic acid encoding mammalian SNORF33 receptors, cells comprising such vectors, antibodies directed to mammalian SNORF33 receptors, nucleic acid probes useful for detecting nucleic acid encoding mammalian SNORF33 receptors, antisense oligonucleotides complementary to unique sequences of nucleic acid encoding mammalian SNORF33 receptors, transgenic, nonhuman animals which express DNA encoding normal or mutant mammalian SNORF33 receptors, methods of isolating mammalian SNORF33 receptors, methods of treating an abnormality that is linked to the activity of the mammalian SNORF33 receptors, as well as methods of determining binding of compounds to mammalian SNORF33 receptors, methods of identifying agonists and antagonists of SNORF33 receptors, and agonists and antagonists so identified.

WO 00/73449 A1